

# [OBJECT DETECTION IN ADAPTIVE CRUISE CONTROL]

## Abstract of Disclosure

A control system 20 for an automotive vehicle 22, such as an adaptive cruise control (ACC) system, is provided including a controller 24. The controller 24 is electrically coupled to a radar system and a navigation system. The detection system 28 detects an object and generates an object profile. The navigation system 34 generates a navigation signal. The controller 24 in response to the object profile and the navigation signal, generates a predicted future path profile and inhibits resume speed of the vehicle 22 in response to the predicted future path profile. An additional feature of the invention is that the controller 24 may also be electrically coupled to a yaw rate sensor 30. The yaw rate sensor 30 senses the yaw rate of the vehicle 22 and generates a yaw rate signal. The controller 24 in response to the yaw rate signal inhibits resume speed of the vehicle 22.

## Figures

Variable	Mean	SD	Median	Mode	Range	Skewness	Kurtosis
Age	34.5	10.5	30	30	20-55	0.15	2.5
Gender	1.2	0.4	1	1	1-2	0.1	2.5
Marital Status	1.5	0.5	1	1	1-3	0.1	2.5
Education	12.5	2.5	12	12	10-16	0.1	2.5
Occupation	1.5	0.5	1	1	1-3	0.1	2.5
Religion	1.5	0.5	1	1	1-3	0.1	2.5
Income	1.5	0.5	1	1	1-3	0.1	2.5
Health	1.5	0.5	1	1	1-3	0.1	2.5
Stress	1.5	0.5	1	1	1-3	0.1	2.5
Depression	1.5	0.5	1	1	1-3	0.1	2.5
Life Satisfaction	1.5	0.5	1	1	1-3	0.1	2.5
Work Satisfaction	1.5	0.5	1	1	1-3	0.1	2.5
Family Satisfaction	1.5	0.5	1	1	1-3	0.1	2.5
Community Satisfaction	1.5	0.5	1	1	1-3	0.1	2.5
Overall Satisfaction	1.5	0.5	1	1	1-3	0.1	2.5